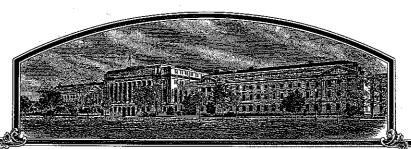
No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Jechnology T. F. G.

TICINS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY STARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TRING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE VARIETY, OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT SET THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'I116412'

In Jestimonn Mucrest, I have hereunto set my hand and caused the seal of the Hunt Huristy Frotection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of April, in the year two thousand and eight.

Allest

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Commissioner Plant Variety Protection Office Saricultural Marbetina Service Secretary of Secretary

	Control of the Contro			÷				
Applications are present valently reported control control control or 1990 (1) 45.0.5 (20). 1. NAME OF OVERET Monsanto Technology L.L.C. 4. ADDRESS globed and file, or Mr.D. Mo, dby, Stad, and 2PP code, and Calabrity 800 N. Lindbergh Blvd. Crive Coeur, MO 63167 U.S.A. 7. Finiti chinerape in present and present a	U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) a				
Monsanto Technology L.L.C. A. ADORRAS (Steel and No., or PR.P.D. No., Chr. State, and 2P Crede, and Costiny) 800 N. Lindbergh Blvd. Creve Coeur, MO 63167 U.S.A. 7. If That COMMEN MARID IN 10rd 7 Pelistory. Give Forence or Commentation of Commentation	APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE			Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
A ADDRIGIS (Steed and Ma, or PLAD M., Cay, Stells, and ZIP Code, and Country) 800 N. Lindbergh Blyd. Crave Coeur, MO 63167 U.S.A. 7. #THE OWNER NAMED IS NOT A PRICEOV. SINE FORM OF STATE ON NOTICE AND STATE OF INCOMPORATION personaling pathwells, association, etc.) Corporation 12. NAME AND ADDRIESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION, Plant pathwells, association, etc.) Timothy R, Kain 8350 Minnegan Road Waterman, IL 60556 U.S.A. 11. TELEPHONE (pedude and sorted) (815) 758-9281 (815) 758-9281 12. FAX (finance) are consolid. (815) 758-9281 13. EARL (ROS) FOR STATE ON NOTICE AND ADDRIESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION, Plant pathwells all pathwell and receive all pathwell. 800 N. Lindbergh Blyd. Creve Coeur, MO 63167 U.S.A. 11. TELEPHONE (pedude and sorted) (815) 758-9281 (815) 758-9281 12. EAX (finance) are consolid. (815) 758-9281 (815) 758-9281 13. EARL (ROS) FOR STATE OF THE VARIETY SECURITY OF SECURITY		.L.C.						
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Timothy R. Kain 8350 Minnegan Road Waterman, IL 60556 U.S.A. 11. TELEPHONE (include area code) (815) 758-9281 12. FAX (include area code) (815) 758-3117 15. GEAUS AND SPECIES NAME OF CROP ZOB MB/S 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (76 for instudition on reverse) 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (76 for instudition on reverse) 19. DOES THE OWNER SPECIFY THAT SEED OF THIS VAMEETY BE SOLD AS A CLASS OF CERTIFICATION OF THE VAMEETY BEST OF THIS VAMEETY BE SOLD AS A CLASS OF CERTIFICATION OF THE VAMEETY BEST OF SUBMITTED OF THE VAMEETY BEST ON THE VAMEETY BEST OF THE VAMEETY BEST ON	ORGANIZATION (corporation, partnership, association, etc.	STATE OF INCORE	PORATION		Feb. 15, 2005			
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8350 Minnegan Road Waterman, IL 60556 Creve Coeur, MO 63167 U.S.A. 11. TELEPHONE (include area code) (815) 758-9281 12. FAX (include area code) (815) 758-9281 13. EMAIL TKAIII@monsanto.com 14. CROP KND (Common Namo) Tris in The Water Y AFRST GENERATION MORRO? Ton, Field 15. GENUS AND SPECIES NAME OF CROP Zea mays 16. CHECK APPROPRIATE BDX FOR EACH ATTACHMENT SUBMITTED (Crown individens on reverse) 18. CHECK APPROPRIATE BDX FOR EACH ATTACHMENT SUBMITTED (Crown individens on reverse) 19. DES THE OWNER SPECIFY THAT SEED OF THIS WARLETY BE SOLD AS A CLASS OF CERTIFIC DEED? Seed Seeding 36(9) of the Plant Variety Protection of the Variety D. X. Enhibt B. Statement of Distinctness 2. X. Enhibt A. Origin and Breeding History of the Variety D. X. Enhibt C. Objective Description of Variety D. X. Enhibt B. Statement of Distinctness 2. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety (politons) E. X. Enhibt C. Objective Description of the Variety Protection of the Variety Protection of the Variety Protection of the State of the Online of the Variety Protection of the Variety of the Variety Protec		,	,	·	E \$ 3652.00			
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States' (Mail to the Plant Variety Protection Office) (If additional explanation is necessary, please use the space indicated on the reverse.) 22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OTHER COUNTRIES? X YES IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety at issue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type)		maintained in an approved public	5	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? OTHER COUNTRIES? X YES IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a luber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) NAME (Please print or type)		to *Treasurer of the United						
X YES NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) NAME (Please print or type)	FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSOR	RIAL) OR A HYBRID PRODUCEI SFERRED, OR USED IN THE U.	D 23 S.	23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?				
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be reptenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) NAME (Please print or type)		Ю						
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and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type)	The owners declare that a viable sample of basic seed of the for a tuber propagated variety a tissue culture will be deposed.	ne variety has been furnished with	h application aintained for	and will be replenished upon request in accord	ance with such regulations as may be applicable, or			
SIGNATURE OF OWNER SIGNATURE OF OWNER NAME (Please print or type)	The undersigned owner(s) is(are) the owner of this sexually and is entitled to protection under the provisions of Section	reproduced or tuber propagated 42 of the Plant Variety Protection	plant variety Act.	y, and believe(s) that the variety is new, distinct,	uniform, and stable as required in Section 42,			
NAME (Please print or type) NAME (Please print or type)	Owner(s) is(are) informed that false representation herein of	an jeopardize protection and rest	ult in penaltic	98.	·			
	SIGNATURE OF OWNER TWO THE R. L.		sic	SIGNATURE OF OWNER				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NAME (Please print or type) Timothy R. Kain	· · · · · · · · · · · · · · · · · · ·	NA	ME (Please print or type)				

CAPACITY OR TITLE

Patent Scientist

DATE

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a, Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Parent of a hybrid sold in the U.S. - March 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent Application No. 10/804,571 - filed March 19, 2004

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, perental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotepe, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (92-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former varsions of ST-470, which are obsolete.

EXHIBIT A

Origin and Breeding History I116412

Corn Variety I116412 was selected for combining ability and stalk quality and test weight

Summer 1995	The inbred line 90LDC2 (a proprietary DEKALB Genetics Corporation inbred) was crossed with LH262 (a line developed by Holden's Foundation Seeds) 95:333-54 / 335-24
Winter 1995-96	F1 seed was grown and self-pollinated in Hawaii 7E37-3 & 4
Summer 1996	F2 seed was grown and self-pollinated in nursery rows 5:1-7 and 54 ears were selected.
Summer 1997	F3 seed was grow ear to row and self-pollinated. Two ears were selected from nursery row 128-7
Summer 1998	F4 seed was grown ear to row (nursery rows 267-21/22). The row selected was 267-21.
Winter 1998-99	F5 seed were grown ear to row and self-pollinated. Three ears were selected from nursery row 6PSS-13-33.
Summer 1999	F6 seed was grown ear to row and self- pollinated. Two ears were selected from nursery row 510-56. The line was named l116412 .
Winter 1999-00	F7 seed was grown ear to row (nursery rows 9K2ND-62-19/18).
Summer 2000	F8 seed was grown (nursery rows 607-(55-70) & 608-(70-67)

Statement of Stability and Uniformity

Corn variety I116412 was coded in 1999 and has been reproduced and judged stable for the past three generations by self-pollination. Corn variety I104774 is uniform for all traits observed.

Statement of Variants

Corn Variety I116412 shows no variants other than that would be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT B (revised)

Statement of Distinctness

Monsanto Technology L.L.C. believes that Corn Variety I116412 is most similar to Corn Variety LH262, a proprietary corn variety of DEKALB Genetics Corporation (PVP No. 9600013).

Corn Variety I116412 differ from Corn Variety LH262 at the following traits:

Variety	Silk Color	Glume Band
l116412	Green-Yellow (2.5 GY 8/6)	Absent
LH262	Pink (5 RP 8/4)	Present

•	Ω	n	1
_	v	u	1

Variety	Ear Shank Length
	(cm)
I116412	7.4
· .	Std Dev = 0.5, N=10
LH262	16.0
	Std Dev = 3.7, N=10
P_Val	0.00
Signif.	**

2002

Variety	Ear Shank Length (cm)
l116412	7.2 Std Dev = 1.6, N=10
LH262	15.7 Std Dev = 4.0, N=10
P_Val	0.00
Signif.	**

Significance levels are indicated as: + = 10%, * = 5 %, ** = 1%

Corn Variety I116412 has green-yellow silk color, no glume bands and a shorter ear shank length while comparative corn variety LH262 has pink silk color the presence of glume bands and a longer ear shank length.

EXHIBIT B (revised)

Description of Experimental Design

The corn varieties I116412, LH262 and MO17 were grown at the Waterman, IL observation nursery in years 2001-2002. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

Waterman Research Station Weather Data 2001-2002

Date	Average	Ave. Monthly	Ave. Monthly	Ave. Monthly	Ave. Monthly
	Precip.	Temp – Max.	Temp-Min	Rel. Humid	Rel. Humid –
	(mm)	(F°)	(Ⱥ)	Max (%)	Min (%)
June 2001	3.2	77.2	56.5	93.2	48.8
July 2001	1.4	84.9	62.2	93.9	47.1
August 2001	2.4	82.9	61.3	96.8	55.8
Sept 2001	4.9	71.4	48.7	95.4	50.9
June 2002	5.3	81.3	60.4	90.7	47.7
July 2002	1.5	87.0	64.9	93.2	48.3
August 2002	5.7	83.1	61.0	96.0	51.8
Sept. 2002	1.5	79.4	52.6	95.0	42.7

5

United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)	TT	
Monsanto Technology L.L.C.	Variety Seed S	Source Variety Name or Temporary Designati
		I116412
Address (Street & No., or R.F.D. No., City, State, Zip Code and	Country)	FOR OFFICIAL USE
800 N. Lindbergh Blvd. Creve Coeur, MO 63167 U.S.A.		200506147
Place the appropriate number that describes the varietal charact whole numbers by adding leading zeroes if necessary. Completend Traits designated by a '*' are considered necessary for an adequ	see chould be etwirren fo	an to octablish on adamenta wanistu daaawisti.
COLOR CHOICES (Use in conjunction with Munsell color code to de: 01=Light Green 06=Pale Yellow 11=Pink 02=Medium Green 07=Yellow 12=Ligh 03=Dark Green 08=Yellow-Orange 13=Chen 04=Very Dark Green 09=Salmon 14=Red 05=Green-Yellow 10=Pink-Orange 15=Red	t Red 16=Pale it Red 17=Purp rry Red 18=Colo 19=Whit	e Purple 21=Buff ple 22=Tan prless 23=Brown
B14 CM105, A632, B64, B68 B37 B37, B76, H84 B73 N192, A679, B73, NC268 C103 Mo17, Va102, Va35, A682 Oh43 A619, MS71, H99, Va26 WF9 W64A, A554, A654, Pa91	maturity) of these to m Yellow Dent (Unrelated) 9, ND246, Oh7, T232 W117, W153R W182BN White Dent: CI66, H105, Ky228	make comparisons based on grow-out trial data) : Sweet Corn: C13, Iowa5125, F39, 2132 Popcorn: SG1533, 4722, HP301, HP7211 Pipecorn: Mo15W, Mo16W, Mo24W
1. TYPE: (describe intermediate types in Comments section) * 2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7	=Pipecorn	Standard Inbred Name MO17 2
2. REGION WHERE DEVELOPED IN THE U.S.A.: * 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=6=Southwest 7=Other	Southcentral	Standard Seed Source NCRIPS2
3. MATURITY (In Region Best Adaptability; show Heat Unit formul section): DAYS HEAT UNITS * 0 8 9 1 7 1 2. 0 From emergence to 50% of pla	nts in silk	DAYS HEAT UNITS 0 7 9 1 6 8 0. 0 0 7 5 1 5 8 2.0
* 0 8 8 1 6 0 7.0 From emergence to 50% of pla	nts in pollen	
` From 10% to 90% pollen shed		
(*) From 50% silk to optimum edi	- -	
From 50% silk to harvest at	25% moisture	
	Deviation Sample Size	Standard Deviation Sample Siz
* 1 7 8.6 cm Plant Height (to tassel tip) 8.0	30	1 9 2. 7 18.6 30
* 0 6 4.4 cm Ear Height (to base of top ear node) 8.0	30	0 7 6.8 14.0 30
0 1 3.6 cm Length of Top Ear Internode 1.0	30	0 1 4.4 1.8 30
Average Number of Tillers		
* 1. 0 Average Number of Ears per Stalk 0.0	15	0 0 1. 0 0.0 30
1 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moo	derate 4=Dark	. 4
Application Variety Data	Page 1	Standard Inbred Data

Applicat	tion	Variety Data	Page	2	Standa	rd Inbre	d Data	
5. LEA	F:		Standard Deviation	Sample Size		Sta	ndard Deviation	Sample Size
* 0	0	8. 5 cm Width of Ear Node Leaf	1.2	30	0 0	9. 0	0.7	30
* 0	8	0. 9 cm Length of Ear Node Leaf	4.2	30	0 6	2. 4	6.4	30
*		5. 8 Number of leaves above top ear	0.4	15	5: 6		0.4	15
	3	O. 3 degrees Leaf Angle (measure from 2nd leaf above ear at a	3.6 inthesis to stalk abo	30 ve leaf)	3 5.	8	7.8	30
*		0 3 Leaf Color (Munsell code 5 GY 3/4)			0 2	(Munsell	code 5 GY 5/10)	
		6 Leaf Sheath Pubescence(Rate on scale	from 1=none to 9=peace	ch fuzz)	2			
		4 Marginal Waves (Rate on scale from 1=	none to 9=many)		5			
		5 Longitudinal Creases (Rate on scale f	rom 1=none to 9=many)	8			
6. TASS	SEL:		Standard Deviation	Sample Size		Sta	ndard Deviation	Sample Size
* 5	5. 5	Number of Primary Lateral Branches	2.3	30	7.1		1.1	30
2 4	. 5	Branch Angle from Central Spike	7.9	30	3 4.	6	5.2	30
* 3 4	. 8	<pre>cm Tassel Length (from top leaf collar to tassel tip)</pre>	3.2	30	4 7.	4	4.9	30
. 4	. 2	Pollen Shed (Rate on scale from 0=male ste	rile to 9=heavy shed)		4 .5			
0	7	Anther Color (Munsell code 2.5 Y 8/10)			0 5	Munsell	code 2.5 GY 8/6)	
0	2	Glume Color (Munsell code 5 GY 4/8)			0 2	Munsell	code 5 GY 4/8)	
	1	Bar Glumes (Glume Bands): 1=Absent 2=Prese	nt		1			
7a. EAR	(Un	husked Data):						
* 0	5 Si	lk Color (3 days after emergence) (Munsell	code 2.5 GY 8/6)		0 5 (Munsell	code 2.5 GY 8/6)	
0 :	2 Fr	esh Husk Color (25 days after 50% silking)	(Munsell code 5 GY 4	/8)	0 2 (Munsell	code 5 GY 4/8)	
2	1 Dr	y Husk Color (65 days after 50% Silking) (1	Munsell code 2.5 Y 8/	4)	2 1 (Munsell	code 2.5 Y 8/4)	
*	1 Po.	sition of Ear at Dry Husk Stage: 1=Upright	2=Horizontal 3=Pende	nt	1			
8	8 Hu	sk Tightness (Rate on scale from 1=very loc	ose to 9=very tight)		8			
3	1 Hu:	sk Extension (at harvest): 1=Short (ears example): 3=Long (8-10 cm beyond ear to	kposed) 2=Medium (<8 ip) 4=Very Long (>10	cm)	3			
7b. EAR	(Hus	sked Ear Data):	Standard Deviation	Sample Size		Star	dard Deviation	Sample Size
* 1	2.	9 cm Ear Length	1.3	20	1 8.		0.7	30
* 3	3.	0 mm Ear Diameter at mid-point	1.0	20	3 8.		1.6	30
		2 gm Ear Weight	2.3	20	1 0 2		2.3	30
*		2 Number of Kernel Rows	0.6	20	1 2		0.7	15
		2 Kernel Rows: 1=Indistinct 2=Distinct			2		,	10
		1 Row Alignment: 1=Straight 2=Slightly Cur	ved 3=Spiral		1			
0		4 cm Shank Length	0.2	20	0 9.	8	1.9	15 .
		2 Ear Taper: 1=Slight 2=Average 3=Extreme			2			
Applicati	on V	Variety Data			Standar	d Inbred	Data	
lote: Use	cha	art on first page to choose color codes for	color traite					

S. KENNEL (Dried):	Application Variety Data	Page	3	Standard Inb	red Data	
1 0. 1 am Karmel Length	8. KERNEL (Dried):					0. 2 0.
0 7. 9 mm Kernel Width	1 0.1 mm Kernel Length		•			
0 3.8 mm Kernel Thickness						
1 9 .0 % Round Mermels (Chape Grade) 1.2 500g 3 0.7 % 0.1 13 Alburone Color Pattern: 1-Homorygous 2-Segregating 1 1	0 3.8 mm Kernel Thickness					
1 Aleurone Color Pattern: 1-Homozygous 2-Segregating 1 1 9 Aleurone Color (Munsell code Lighter than 2.5 y 9/2) 2 0 7 Hord Endosperm Color (Munsell code Lighter than 2.5 y 9/2) 3 3 Endosperm Color (Munsell code 2.5 y 8/10) 4 0 7 Hord Endosperm Color (Munsell code 2.5 y 8/10) 5 0 3 Endosperm Color (Munsell code 2.5 y 8/10) 5 0 3 Endosperm Color (Munsell code 2.5 y 8/10) 6 0 3 Endosperm Color (Munsell code 2.5 y 8/10) 7 O T (Munsell code 2.5 y 8/10) 7 O T (Munsell code 2.5 y 8/10) 7 O T (Munsell code 2.5 y 8/10) 8 0 2 6.8 gm Melight per 100 Mernols (funited sumple) 8 Color (Munsell code 2.5 y 8/10) 9 COB: 9 COB: 1 4 Cob Color (Munsell code 3 R 3/8) 10 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 11 Harvey Color (Munsell code 5 R 3/8) 10 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 11 Harvey Color (Munsell code 5 R 3/8) 10 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 11 Harvey Color (Munsell code 5 R 3/8) 10 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 12 Harvey Color (Munsell code 5 R 3/8) 11 G (Munsell code 5 R 3/8) 12 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 13 Harvey Color (Munsell code 5 R 3/8) 14 G (Munsell code 5 R 3/8) 15 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 16 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 17 Acthracomes Lafe Richer (Local most resistant); 18 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); 19 DISSASE				1		
1 9 Aleurone Color (Nunsell code Lighter than 2.5 y 9/2) 0 7 Nerd Endospers Type 1-Seves (will) Setter System (12) Setter Syst			500g		3.3	500g
0 7 Mard Endosparm Color (Munsell code 2.5 Y 8/10) 0 3 Endosparm Type: 1-Sweet (sul) 2-Estra Sweet (sul) 3-Horsel Starch - 4-High Anylose Starch - 5-Ways Starch - 6-High Evotion 7-High Lysine 8-Super Sweet (sul) 9-High Oil 10-Chert 2 6.8 m Meight per 100 Kernels funsized sample) 4.3 1700 seeds 9. COS: Standard Deviation Sample Size 2 8.9 4.1 1200 seeds 9. COS: Standard Deviation Sample Size 2 9.0 mm CoD Diameter at mid-point 1.0 20 2 2.1 0.8 15 1 4 COS COLOR (Munsell code 5 R 3/8) 1.4 (Munsell code 5 R 3/8) 1.4 (Munsell code 5 R 3/8) 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5						
0 3 Endospera Type: 1-Steet (cal) 2-Entra Squer (sh2) 3-Normal Starch 4-Righ Rytoles Starch 5-Stuper Sweet (se) 3-Righ Cil 10-Other 17-Righ Lytine 2 8.9 4.1 1200 seeds 2 8.9 4.1 1200 seeds 3-Stuper Sweet (se) 3-Righ Cil 10-Other 2 6.8 gm Weight per 100 Kernels (unsized sample) 4.3 1700 seeds 2 8.9 4.1 1200 seeds 3 9.00s;				!		
2 6. 0 gm Weight per 100 Kernels (unsized semple) 4.3 1700 seeds 9. COB: Standard Deviation Sample Size Standard Deviation Sample Size 2 0. 0 mm Cob Diameter at mid-point 1.0 20 22 2.1 0.0 15 1 4 COD Color (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 10. DISSARS RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); loave blank if not tested; leave Race or Strain Options blank if polygenio; A. Leaf Blights, Wilts, and Local Infection Diseases 7 Acthrenoce teaf Blight (Collototrichum graminicola) 7 Common Rase: (Parcollula sappli) 7 Exemptor (Kabatiella race) 8 Goss's Wilt (Claribbera midniganense app. nebreskense) 9 Goss's Wilt (Claribera midniganense app. n	* 0 3 Endosperm Type: 1=Sweet (sul) 2=Extra S 4=High Amylose Starch 5=Waxy Starch 6=	weet (sh2) 3=Normal Sta	arch sine		ll code 2.5 Y 8/10)
Sandard Devalion Sample Size 2 0.0 mm Cob Diameter at mid-point 1.0 20 2 2.1 0.8 15 1 4 Cob Color (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 0.0 DISRASE RESISTANCE (Rate from 1 (Most susceptible) to 9 (most resistant); Leave Diank If not tested; leave Race or Strain Options blank if polygenic); A. Loaf Blights, Wilts, and Local Infection Diseases 7 Anthracnose Leaf Blight (Collectrichum graminicols) 7 Common Rust (Foucinia sorghi) 7 5 (Wesport (Abhitisellage maydis) 7 6 Goss's Wilt (Clavibucter michiganense spp. nebraskense) 6 6 Gray Leaf Spot (Gerzospora seas-maydis) 8 6 Halminthosporium Leaf Spot (Bipolaris zaicols) Race 2 8 8 Race 2 7 Southern Leaf Blight (Risserohilum turcicum) Race 2 9 7 Southern Leaf Slight (Risserohilum turcicum) Race 2 3 7 Southern Rust (Funcina polysora) 3 7 Other (Specity) 3 8. Systemic Diseases Corn Lethal Wecrosis (MCNW and MENV) 8 Maize Chiorotic Mottle Virus (MCNW) 9 Maize Chiorotic Maize Mcottle Virus (MCNW) 9 Maize Chiorotic Mcot			1700 seeds	2 8.9	4.1	1200 seeds
* 2 0.0 mm Cob Diameter at mid-point 1.0 20 2 2.1 0.8 15 1 4 Cob Color (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 0. DISPASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic): A. Leaf Blights, Wilts, and Local Infection Diseases 7 Anthracnose Leaf Blight (Colletotrichum graminicols) 7 Common Raut (Pucinis sorghi) 8 Common Smut (Vestiage maydis) 8 Coray Leaf Optic (Expospers asse-maydis) 9 Coray Leaf Spot (Expospers assertis) 9 Coray Leaf Mayor Mildew of Coray (Expospers assertis) 9 Coray Leaf Rosic Virus (MMW) Strain 9 Coray Leaf Rosic Virus (MMW) 1 Coray	9. COB:	Standard Deviation	Sample Size	S	tandard Devaition	Sample Size
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant);	* 2 0.0 mm Cob Diameter at mid-point	1.0	20			
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic): A. Leaf Blights, Wilts, and Local Infection Diseases 7 Anthracnose Leaf Blight (Collectrichum graminicola) 7 Common Rust (Puccinia sorghi) 7 Common Rust (Puccinia sorghi) 7 Eyespot (Kabatiella zeae) 8 Goas's Wilt (Clavibocer michiganense spp. nebrsakense) 9 Go	1 4 Cob Color (Munsell code 5 R 3/8)			1 4 (Munse	ell code 5 R 3/8)	
A. Leaf Blights, Wilts, and Local Infection Diseases 7 Anthracnose leaf Blight (Collectrichum graminicola) 7 Common Smut (Weinia scripti) Common Smut (Weiliago maydis) 7 Eyespot (Kabatiella zeae) 6 Goss's Wilt (Clavibacter michiganense spp. nebraskense) 6 Gray Leaf Spot (Cercospora zeae-maydis) 8 Holminthosporium Leaf Spot (Bipolaris zeicola) Race 2 8 Race 2 8 Northern Leaf Blight (Exserohilmut turcicum) Race 2 7 Southern Leaf Blight (Exserohilmut turcicum) Race 2 8 Suchtern Leaf Blight (Experohilmut turcicum) Race 0 Southern Raut (Paccinia polysora) 7 Stewart's Wilt (Exwinia stewartii) 7 Other (Specify) 8 Systemic Diseases Corn Lethal Necrosis (MCMV and MDMV) Read Smut (Sphacelotheca reiliana) Maize Chiorotic Dwarf Virus (MCMV) Maize Chiorotic Dwarf Virus (MCMV) Maize Chiorotic Dwarf Virus (MCMV) Maize Dwarf Mosaic Virus (MCMV) Sorphum Downy Mildew of Corn (Peronoselerospora sorghi) 7 Other (Specify) 8 Anthracnose Stalk Rot (Collectrichum graminicola) Diplodis Stalk Rot (Stenocarpella maydis) Pusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Fusarium moniliforme) Gibberella Ear Rot (Stenocarpella maydis) Pusarium Ear and Kernel Rot (Appergillus flavus) Diplodie Ear Rot (Stenocarpella maydis) Pusarium Ear and Kernel Rot (Appergillus flavus) Diplodie Ear Rot (Stenocarpella maydis) Pusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Gibberella zeae) Other (Specify) Application Variety Data Standard Inbred Data	10. DISEASE RESISTANCE (Rate from 1 (most susceptibl	e) to 9 (most resistant);			
7 Anthracnose Leaf Blight (Colletotrichum graminicola) 7 Common Rust (Puccinis sozghi) 7 Common Rust (Puccinis sozghi) 7 Eyespot (Kabatiella zeae) 7 Eyespot (Kabatiella zeae) 7 Goss's Will (Clavibacter michiganense spp. nebraskense) 8 Gray Leaf Spot (Grocspora zeae-maydis) 9 Helmintosporium Leaf Spot (Bjolaris zeicola) Race 2 9 Northern Leaf Blight (Excerohium turcicum) Race 2 9 Northern Leaf Blight (Excerohium turcicum) Race 2 9 Northern Rust (Paccinia polysora) 7 Stewart's Will (Clavibania stewarti) 9 Cher (Specify) 8 Systemic Diseases 9 Corn Lethal Necrosis (MCMV and MDMV) 9 Head Smut (Sphacelotheca reiliana) 9 Maize Chiorotic Dwarf Virus (MCMV) 9 Maize Chiorotic North Virus (MCMV) 9 Maize Chiorotic No			rygenic):			
Application Variety Data Standard Inbred Data	Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) Eyespot (Kabatiella zeae) Goss's Wilt (Clavibacter michiganense spp. nebra Gray Leaf Spot (Cercospora zeae-maydis) Helminthosporium Leaf Spot (Bipolaris zeicola) Re Northern Leaf Blight (Exserohilum turcicum) Race Southern Leaf Blight (Bipolaris maydis) Race 0 Southern Rust (Puccinia polysora) Stewart's Wilt (Erwinia stewartii) Other (Specify) B. Systemic Diseases Corn Lethal Necrosis (MCMV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dwarf Virus (MCDV) Maize Dwarf Mosaic Virus (MDMV) Strain Sorghum Downy Mildew of Corn (Peronosclerospora softher (Specify) C. Stalk Rots Anthracnose Stalk Rot (Colletotrichum graminicola Diplodia Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify) D. Ear and Kernel Rots Aspergillus Ear and Kernel Rot (Aspergillus flavus Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Gibberella zeae)	skense) ace 2 2 sorghi)		- 7 6 2 8 Race 2 5 Race 2 3 Race 0		
Standard Thored Data	Application Variety Data			Standard Inhr	ed Data	
				Stanuard inpr	ed Data	

			1		
Application Variety Data	Pac	ge 4	Standard Inbre	d Data	
<pre>11. INSECT RESISTANCE (Rate from 1 (most susceptible) leave blank if not tested):</pre>					
Banks Grass Mite (Oligonychus pratensis) Corn Earworm (Helicoverpa zea) Leaf-Feeding Silk Feeding:	Standard Deviation	Sample Size	-	Standard Deviation	Sample Size
	ding)				
cm tunneled/plant Fall Armyworm (Spodoptera frugiperda)Leaf-Feeding Silk-Feeding:					
mg larval wt. Maize Weevil (Sitophilus zeamaize) Northern Rootworm (Diabrotica barberi) Southern Rootworm (Diabrotica undecimpunctata) Southwestern Corn Borer (Diatraea grandiosella) Leaf Feeding Stalk Tunneling:			-		
12. AGRONOMIC TRAITS:					
6 Stay Green (at 65 days after anthesis) (Reto 9=excellent.) 0 0.0 % Dropped Ears (at 65 days after anthesis		1=worst	2 0 0.0		
0 0.0% Pre-anthesis Brittle Snapping			0 0.0		
0 0.0 % Pre-anthesis Root Lodging			0 0.0		
0 0.0% Post-anthesis Root Lodging (at 65 days	after anthesis)		0 0.0		
Kg/ha Yield of Inbred Per Se (at 12-13%	grain moisture)		- -		
13. MOLECULAR MARKERS: (0=data unavailable; 1=data avai	ilable but not supp	lied; 2=data su	pplied)		
0 Isozymes 0 RFLP's 0 RAPD's					
REFERENCES:					
Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio State University. Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180. Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Plant and Plant Products in the United States. The American Phytopathological Society, St. Paul, MN. Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westport, CT. Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Uses. John Wiley & Sons, New York. McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp. Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburgh, N.Y. 12551-0230 The Mutants of Maize. 1968. Crop Science Society of America. Madison, WI. Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Paul, MN. 105 pp. Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, Madison, WI. Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1959. U.S. Department of Agriculture. 1936, 1937. Yearbook.					
COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):					
Heat Unit Calculation: GDU = Daily Max Temp ($\leq 86^{\circ}$ F) +	Daily Min Temp (>=	<u>=50°F)</u> – 50°F			
Supplemental data provided for pollen shed, ear weight, data and 2006 seed inventory data. Supplemental trait d	% round kernels a data obtained from	nd weight per 10 2005 field trial	00 kernels from 20 ls.	006 production p	erent test

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EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issued	ued (7 U.S.C. 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Monsanto Technology L.L.C.	ON DAMESTING HOMBEN	1116412
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
800 N. Lindbergh Blvd.	(815) 758-9281	(815) 758-3117
Creve Couer, MO 63167 U.S.A.	7. PVPO NUMBER	
		200500147
8. Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block. If no, please expla	in. X YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. I	pased company? If no, give name of co	ountry. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
		•
a. If the original rights to variety were owned by individual(s), is the control of the control	NO If no, give name of country	
b. If the original rights to variety were owned by a company(ies), YES	is (are) the original owner(s) a U.S. base NO If no, give name of country	
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the rev	verse for extra space if needed):
Corn Variety I116412 was originated and dev Technology L.L.C. By agreement between M rights to any invention, discovery or developm No rights to such invention, discovery or deve	lonsanto Technology L.L.C. and the next are assigned to Monsanto T	the breeder, all echnology L.L.C.
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Plant variety protection can only be afforded to the owners (not license	ees) who meet the following criteria:	
. If the rights to the variety are owned by the original breeder, that pe national of a country which affords similar protection to nationals of	rson must be a U.S. national, national of the U.S. for the same genus and species	a UPOV member country, or
. If the rights to the variety are owned by the company which employed nationals of a UPOV member country, or owned by nationals of a congenus and species.	ed the original breeder(s), the company nountry which affords similar protection to	nust be U.S. based, owned by nationals of the U.S. for the same
. If the applicant is an owner who is not the original owner, both the o	riginal owner and the applicant must mee	et one of the above criteria.
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